

# 101 SERIES

## Hydrostatic Test Unit

to suit SC Hydraulic 10-5 or D5 Series pumps



**TRIDENT AUSTRALIA**  
FLUID SYSTEMS & COMPONENTS



Trident Australia Hydrostatic Pressure Test Unit incorporating a choice of SC Hydraulic air driven pumps available in ratios from 5:1 to 555:1 for pressures to 55,000 psi.

These units are available with or without a 316SS tank and with a host of options including relief valves.

### FEATURES

- 8 litre 316SS tank with removable lid for cleaning, sight glass and drain plug
- Isolation valve to isolate pressure test from pump
- Top quality McDaniel Controls gauges that can be calibrated and repaired when required
- Spare parts for all items on test unit carried at Trident
- We offer aftermarket service and calibration
- For sale or hire

Part number: 101-Pump Series & Ratio-Options  
Eg: 101-D5195-RV

101 Series fitted with D5000B195 pump and relief valve

Series	Pump Series	Ratio	Nominal Outlet Pressure (psi)	Outlet Gauge (psi/bar)	Air Inlet	Liquid Outlet	Options
101	D5	5:1	465	800	1/2 NPTF	1/2 NPTF	NN – No NPT on HP circuit
101	D5	10:1	1,000	1,500	1/2 NPTF	1/2 NPTF	RV – Relief Valve
101	D5	12:1	1,225	2,000	1/2 NPTF	1/2 NPTF	SK – Stroke Counter
101	D5	20:1	1,900	3,000	1/2 NPTF	1/2 NPTF	WT – Without Tank
101	D5	25:1	2,625	3,000	1/2 NPTF	1/2 NPTF	WV1 – Without Isolation Valve
101	D5	30:1	3,075	4,000	1/2 NPTF	1/2 NPTF	
101	D5	35:1	3,625	5,000	1/2 NPTF	1/2 NPTF	
101	D5	55:1	5,800	6,000	1/2 NPTF	1/2 NPTF	
101	D5	70:1	7,000	10,000	1/2 NPTF	3/8 MPF	
101	D5	85:1	8,600	10,000	1/2 NPTF	3/8 MPF	
101	D5	105:1	10,700	15,000	1/2 NPTF	3/8 MPF	
101	D5	140:1	14,000	15,000	1/2 NPTF	3/8 MPF	
101	D5	195:1	18,750	20,000	1/2 NPTF	3/8 MPF	
101	D5	280:1	27,500	35,000	1/2 NPTF	3/8 HPF	
101	D5	440:1	42,500	60,000	1/2 NPTF	3/8 HPF	
101	D5	555:1	55,500	60,000	1/2 NPTF	3/8 HPF	

- Accessories available  
Including Chart Recorders  
Hoses, Fittings

WHAT YOU NEED.  
WHEN YOU NEED IT.



15 Magnet Road,  
Canning Vale WA 6155 | Australia  
+61 8 9456 1300 phone

www.tridentaustralia.com.au

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D5 & 10-5 Series pumps have a 5 1/2 inch diameter air piston and a 1 1/4 inch stroke. Sixteen models are available with pressures up to 55,000 psi.

When operating from 0 to rated hydraulic pressure, air consumption will be approximately 28 scfm of free air at 100 psi output. At lower air pressures and higher hydraulic pressures air consumption will be reduced proportionately to flow rates indicated.

The D5 Series "Dry Lube" pump is identical to the 10-5 Series except it is pre-lubricated and therefore does not require an air line lubricator. The part number distinguishes it from the 10-5 Series by the D5 prefix and using the actual ratio rather than a numerical code in the model suffix.

**Measurements & Approximate Air to Hydraulic Pressure Ratios – Static Conditions**

D5 Series Model (Ratio)	10-5 Series Model	Hydraulic Piston Diameter (in)	Hydraulic Piston Area (in <sup>2</sup> )	Volume per Stroke (in <sup>3</sup> )	Air Pressure (PSI)									
					10	20	30	40	50	60	70	80	90	100
5	-003	2.3750	4.430	5.540	30	75	130	175	220	270	320	370	415	465
10	-005	1.6250	2.070	2.590	80	180	285	385	490	590	690	795	900	1000
12	-007	1.5000	1.770	2.210	90	200	340	450	560	700	850	980	1100	1225
20	-010	1.1875	1.110	1.390	145	330	525	700	925	1100	1300	1500	1700	1900
25	-015	1.0000	0.785	0.981	200	475	750	1000	1300	1550	1800	2000	2350	2625
30	-018	0.9375	0.689	0.861	225	525	875	1150	1500	1775	2050	2350	2700	3075
35	-020	0.8750	0.601	0.751	250	600	1000	1400	1775	2125	2475	2825	3200	3625
55	-030	0.6875	0.371	0.464	400	1000	1700	2200	2900	3400	4000	4600	5200	5800
70	-040	0.6250	0.307	0.384	500	1175	1950	2600	3350	4100	4900	5600	6350	7000
85	-045	0.5625	0.248	0.310	800	1700	2600	3400	4400	5100	6000	6900	7800	8600
105	-060	0.5000	0.196	0.245	900	2000	3150	4200	5400	6400	7450	8500	9700	10700
140	-080	0.4375	0.150	0.188	1100	2400	3900	5400	6900	8300	9800	11200	12600	14000
195	-100	0.3750	0.110	0.138	1400	3250	5250	7250	9250	11250	13250	15000	17000	18750
280	-160	0.3125	0.077	0.096	2250	4000	7750	10500	13500	16250	18750	21500	24500	27500
440**	-250**	0.2500	0.049	0.061	5000	8000	12500	16500	21000	25500	30000	34000	38000	42500
555**	-350**	0.2187	0.038	0.048	6250	12500	18750	25000	31250	37500	43750	47500	51250	55000

\*\* Recommended for continuous duty at pressures up to 30,000 psi. Intermittent duty above 30,000 psi.

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